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- ☐ 1. [POLYACRYLAMIDE HYDROGEL AND ITS USE AS AN ENDOPROSTHESIS](#)  
**PETERSEN, Jens / SCHMIDT, Richard / LESSEL, Robert / SORENSEN, Jens-Erik / Contura S.A., EUROPEAN PATENT**, Mar 2003  
 ...invention relates to a novel **polyacrylamide hydrogel** cross-linked polyacrylamide...biological membranes. The **polyacrylamide hydrogel** of the invention is fully...invention is to provide a **prosthetic** device for increasing...surprisingly found that a **polyacrylamide hydrogel** comprising less than...  
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- ☐ 2. [POLYACRYLAMIDE HYDROGEL AND ITS USE AS AN ENDOPROSTHESIS](#)  
**PETERSEN, Jens / SCHMIDT, Richard / LESSÉ, L, Robert / SØ / RENSEN, Jens-Erik / CONTURA S.A., PATENT COOPERATION TREATY APPLICATION**, Feb 2002  
 ...provide a **prosthetic** device for...comprising a **polyacrylamide hydrogel** said hydrogel...provide a **polyacrylamide hydrogel** for use as a **prosthetic** device for...relates to a **prosthetic** device for...comprises a **polyacrylamide hydrogel** comprising...  
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- ☐ 3. [Direct voltammetry and electrocatalytic properties of catalase incorporated in polyacrylamide hydrogel films](#)  
**Lu, H. / Li, Z. / Hu, N., Biophysical Chemistry**, Jul 2003  
 ...electrocatalytic properties of catalase incorporated in **polyacrylamide hydrogel** films Haiyun Lu Zhen Li Naifei Hu \* \* Corresponding author...four identical subunits, each containing a single heme **prosthetic** group. The heme group consists of a protoporphyrin ring...  
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- ☐ 4. [Direct voltammetry and electrochemical catalysis with horseradish peroxidase in polyacrylamide hydrogel films](#)

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**Huang, R. / Hu, N., *Biophysical Chemistry*, May 2003**

...catalysis with horseradish peroxidase in **polyacrylamide hydrogel** films Rong Huang Naifei Hu \* \* Corresponding...peroxide [5] . It contains a heme **prosthetic** group as its active site. The molecular...Fe(II) redox couple of the HRP heme **prosthetic** group [11,13,14] . As a control, PAM...

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☐ **5. PROSTHETIC NUCLEUS APPARATUS AND METHODS**

**CRAGG, Andrew, H. / ASSELL, Robert, L. / WESSMAN, Bradley, J. / TRANS1, INC., *PATENT COOPERATION TREATY APPLICATION*, Feb 2006**

**PROSTHETIC NUCLEUS APPARATUS AND METHODS** CROSS-REFERENCE TO RELATED APPLICATIONS The present U.S. Patent...reference. BACKGROUND OF THE INVENTION Field of the Invention: The present invention relates to **prosthetic** nucleus apparatus and, more particularly, to **prosthetic** nucleus apparatus that may be introduced percutaneously using minimally invasive techniques...

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☐ **6. Myoglobin in polyacrylamide hydrogel films: direct electrochemistry and electrochemical catalysis**

**Shen, L. / Huang, R. / Hu, N., *Talanta*, Apr 2002**

...S0039-9140(01)00640-3 ] Elsevier Science B.V. Myoglobin in **polyacrylamide hydrogel** films: direct electrochemistry and electrochemical catalysis...contains a single polypeptide chain with an iron heme as its **prosthetic** group [3] . It is known that Mb stores and transports oxygen...

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☐ **7. Direct electron transfer of hemoglobin on PSS/SWNTs film modified Au electrode and its interaction with ribavirin**

**Cheng, W. / Jin, G. / Zhang, Y., *Sensors & Actuators: B. Chemical*, Mar 2006**

...heme protein which can store and transport oxygen in blood in vertebrates. Every Hb molecule has four redox iron hemes as its **prosthetic** groups. Each is associated with a protein chain of molecule weighing around 16,000. Although Hb dose does not play a role...

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☐ **8. Ferroceneboronic acid-based amperometric biosensor for glycated hemoglobin**

**Liu, S. / Wollenberger, U. / Katterle, M. / Scheller, F.W., *Sensors & Actuators: B. Chemical*, Feb 2006**

An amperometric biosensor for the determination of glycated hemoglobin in human whole blood is proposed. The principle is based on the electrochemical measurement of ferroceneboronic acid (FcBA) that has been specifically bound to the...

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☐ **9. Studies on direct electron transfer and biocatalytic properties of heme proteins in lecithin film**

**Lu, Q. / Chen, X. / Wu, Y. / Hu, S., *Biophysical Chemistry*, Aug 2005**

...accompanied by proton transfer[13]. 3.2 UV-Vis spectroscopy of the films The position of the sensitive Soret absorption band of heme **prosthetic** group for heme proteins may

provide additional information about possible denaturation of the proteins, especially that of...

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- ☐ **10. An electrochemical investigation of hemoglobin and catalase incorporated in collagen films**

**Li, M. / He, P. / Zhang, Y. / Hu, N.,** *BBA - Proteins and Proteomics*, May 2005

...of Cat in collagen films were more negative than those of the Hb-collagen films, suggesting that the proteins with the same **prosthetic** group or redox center may not have the same redox formal potential in the same film microenvironment. The heme groups inside...

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- ☐ **11. TEMPERATURE-CONTROLLED PROCESS FOR PREPARATION OF HOMOGENEOUS POLYMERS**

**SCHMIDT, Richard / LESSEL, Robert / SØ / RENSEN, Jens-Erik / CONTURA SA,** *PATENT COOPERATION TREATY APPLICATION*, Mar 2003

...required for the intended **prosthetic** purpose. The washing...substantially I 35 uniform **polyacrylamide hydrogel** obtainable according...the preparation of a **polyacrylamide hydrogel** comprising i) combining...the formation of 5 the **polyacrylamide hydrogel** iii) contacting a the...

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- ☐ **12. Heme protein films with polyamidoamine dendrimer: direct electrochemistry and electrocatalysis**

**Shen, L. / Hu, N.,** *Biochimica et Biophysica Acta (BBA)/Bioenergetics*, Jan 2004

Biocompatible nanosized polyamidoamine (PAMAM) dendrimer films provided a suitable microenvironment for heme proteins to transfer electron directly with underlying pyrolytic graphite (PG) electrodes. Hemoglobin (Hb), myoglobin (Mb),...

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- ☐ **13. SPINAL MOBILITY PRESERVATION APPARATUS AND METHOD**

**CRAGG, Andrew, H. / ASSELL, Robert, L. / AINSWORTH, Steven, D. / WESSMAN, Bradley, J. / DICKHUDE, Eugene, A. / TRANS1, Inc.,** *PATENT COOPERATION TREATY APPLICATION*, May 2005

...progressively more active interventions may be necessary. These more active interventions may include spinal arthroplasty including **prosthetic** nucleus device implantation annulus repair, and total disc replacement, and eventually, even spinal arthrodesis. The nature...

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- ☐ **14. Electrochemical and electrocatalytic properties of myoglobin and hemoglobin incorporated in carboxymethyl cellulose...**

**Huang, H. / He, P. / Hu, N. / Zeng, Y.,** *Bioelectrochemistry*, Oct 2003

...contain at least one porphyrin complex of Fe or heme as the **prosthetic** group, and perform different physiological functions [1,2...subunits, each of which is similar to Mb and contains one heme **prosthetic** groups [3] . In vertebrate animals, Mb and Hb functions in...


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- ❑ **15. IMPLANTABLE HYDROGEL WITH RESORBABLE SHELL FOR USE AS AN ENDOPROTHESIS ANKORINA-STARK, Ieva / PAVLYK, Boris Ivanovitch / CONTURA SA, PATENT COOPERATION TREATY APPLICATION, Feb 2005**  
 ...resorbed into the body. Similarly, EP 0 727 232 discloses a **prosthetic** device wherein here shall be no degradation of shell or...EP 1214 953 discloses a mammary prosthesis comprising **polyacrylamide hydrogel** in a rounded shell of medical high polymer elastic material...

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- ❑ **16. ENDOSCOPIC ATTACHMENT DEVICE HERN, Sør / ren / CONTURA S.A., PATENT COOPERATION TREATY APPLICATION, Dec 2004**  
 A sheath device (1) suitable for endoscopic instruments (2) and comprising an elongated tubular member (4) having a proximal end (6), a distal open end (7), and at least one fluid channel (23). A flushing unit (5) is connected to the proximal end (6)...

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- ❑ **17. FIBROUS PROTEIN-IMMOBILIZATION SYSTEMS WANG, Ping / RENEKER, Darrell / JIA, Hongfei / ZHU, Guangyu / THE UNIVERSITY OF AKRON, PATENT COOPERATION TREATY APPLICATION, Dec 2003**  
 ...homogeneous reaction rate) for a-chymotrypsin entrapped in **polyacrylamide hydrogel** was reported to be 0.3 for a 30 chymotrypsin incorporated...via covalent chemical bonds, in which case it is called a **prosthetic** group. A complete catalytically active enzyme together...

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- ❑ **18. Langmuir-Blodgett films and black lipid membranes in biospecific surface-selective sensors Reichert, W.M. / Bruckner, C.J. / Joseph, J., Thin Solid Films, Sep 1987**  
 ...peroxidases and catalases all contain protoheme as the metal complex **prosthetic** group (Fig. t(a)). The chlorophylls are magnesium porphyrin...proteins in intact cells and are therefore not considered a **prosthetic** group. In nearly all cytochromes the fifth and sixth positions...

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